THIRD SEMESTER B.Sc. DEGREE EXAMINATION, NOVEMBER 2023

(CBCSS - UG)

(Regular/Supplementary/Improvement)

CC19U BOT3 C03 - MORPHOLOGY, SYSTEMATIC BOTANY, ECONOMIC BOTANY, PLANT BREEDING AND HORTICULTURE

(Botany - Complementary Course)

(2019 Admission onwards)

Time : 2.00 Hours   Maximum : 60 Marks

Credit : 2

Part A (Short answer questions)

Answer *all* questions. Each question carries 2 marks.

1. Describe palmately compound leaf with an example.

2. Explain free central placentation with examples.

3. Write notes on botanic Gardens.

4. Describe binomial system of nomenclature.

5. Differentiate between cytotaxonomy and chemotaxonomy.

6. Write the general floral formula of Malvaceae.

7. Write notes on androecium in Papilionaceae.

8. Describe the spikelet in Poaceae.

9. Write the binomial, family and morphology of the useful part of the following plants (a) gingelly (b) Coconut.

10. Write down the binomial, family and useful part of two beverages.

11. What does M1, M2, M3 and M4 represent?

12. What are the advantages of seed propagation?

(Ceiling: 20 Marks)

Part B (Short essay questions - Paragraph)

Answer *all* questions. Each question carries 5 marks.

13. Draw and label V.S. of cyathium.

14. Explain the characteristic features of family Caesalpiniaceae.

15. Important characters of the family Rubiaceae.

16. Describe the characters of the family Euphorbiaceae.

17. Explain the binomial, family, morphology of useful part and uses of Rauvolfia sepentina and Curcuma longa.

18. Explain pure line breeding method.

19. What is air layering? Explain the different steps involved.

(Ceiling: 30 Marks)

Part C (Essay questions)

Answer any *one* question. The question carries 10 marks.

20. Describe the vegetative and floral features of Apocynaceae. Give an account on economic importance of the family

21. What is hybridization? Describe the stages involved in hybridization. Point out its role in crop improvement

(1 × 10 = 10 Marks)

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